

**TYPICAL DETECTION LIMITS, METHOD D
for Toxaphene**

AXYS Method:
Instrument Type:
MDL Protocol:

MLA-007
Low Resolution GC/MS
Federal Register 40 CF

Matrix		
Units/Sample Size		ng
Analyte (Parlar)	IUPAC Name	Typical Detection Limit/SDL
Hex sed (2)	2-exo,3-endo,6-exo,8,9,10-HexaCB	2.0
Hept sed (3)	2-endo,3-exo,5-endo,6-exo,8,9,10-HeptaCB	2.0
(Peak 5)	2-exo,3-endo,5-exo,8,9,10,10-HeptaCB	2.0
Parlar 26 (4)	2-endo,3-exo,5-endo,6-exo,8,8,10,10-OctaCB	2.0
Parlar 32 (6)	2,2,5,5,8,9,10-HeptaCB, 2,2,5-endo,6-exo,8,9,10-HeptaCB	2.0
(Peak 7)	2-exo,3-endo,6-exo,8,9,10,10-HeptaCB, 2-exo,3-endo,5-exo,6-exo,8,9,10-HeptaCB	2.0
(Peak 9)	2-endo,3-exo,6-exo,8,9,10,10-HeptaCB	2.0
Parlar 39 (10)	2,2,3-exo,5-endo,6-exo,8,9,10,OctaCB	2.0
Parlar 40/41 (11,12)	2-endo,3-exo,5-endo,6-exo,8,9,10,10-OctaCB, 2-exo,3-endo,5-exo,8,9,9,10,10-OctaCB	2.0
Parlar 42a (13)	2,2,5-endo,6-exo,8,8,9,10-OctaCB	2.0
Parlar 44 (14)	2-exo,5,5,8,9,9,10,10-OctaCB	2.0
(Peak 15)	2,2,5-endo,6-exo,8,9,10,10-OctaCB	2.0
(Peak 18)	2-endo,3-exo,6-exo,8,8,9,10,10-OctaCB	2.0
Parlar 50 (16)	2-endo,3-exo,5-endo,6-exo,8,8,9,10,10-NonaCB	2.0
(Peak 17)	2,2,3-exo,5,5,9,9,10,10-NonaCB	2.0
Parlar 56 (19/20)	2,2,3-exo,5-endo,6-exo,8,9,10,10-NonaCB, 2-exo,3,3,5-exo,6-endo,8,9,10,10-NonaCB, 2,2,5-endo,6-exo,8,8,9,10,10-NonaCB	2.0
Parlar 58 (21)	2,2,3-exo,5,5,8,9,10,10-NonaCB	2.0
Parlar 62 (22)	2,2,5,5,8,9,9,10,10-NonaCB	2.0

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DETECTION LIMITS AND LOW CALIBRATION LIMITS
Parlors by ECNI GCMS

3 by ECNI detection
 FR Part 136, Appendix B, no iteration

WATER/EFFLUENT		SOIL/SEDIMENT/BIOSOLIDS		
g/L based on 1L sample		ng/g based on 10g sample		
Estimated MDL	LMCL based on Low Cal.	Typical Detection Limit/SDL	MDL	LMCL based on Low Cal.
1.5	2.5	0.2	0.15	0.25
1.6	2.5	0.2	0.16	0.25
1.1	2.5	0.2	0.11	0.25
1.8	2.5	0.2	0.18	0.25
2.3	5.0	0.2	0.23	0.50
2.4	5.0	0.2	0.24	0.50
1.3	2.5	0.2	0.13	0.25
1.1	2.5	0.2	0.11	0.25
2.4	5.0	0.2	0.24	0.50
1.2	2.5	0.2	0.12	0.25
1.4	2.5	0.2	0.14	0.25
0.91	2.5	0.2	0.09	0.25
1.3	2.5	0.2	0.13	0.25
1.3	2.5	0.2	0.13	0.25
0.87	2.5	0.2	0.09	0.25
2.8	7.5	0.2	0.28	0.75
0.90	2.5	0.2	0.09	0.25
0.94	2.5	0.2	0.09	0.25

TISSUE			FILTER	
ng/g based on 10g sample			ng/sample	
Typical Detection Limit/SDL	Estimated MDL	LMCL based on Low Cal.	Typical Detection Limit/SDL	Estimated MDL
0.2	0.15	0.25	2.0	1.5
0.2	0.16	0.25	2.0	1.6
0.2	0.11	0.25	2.0	1.1
0.2	0.18	0.25	2.0	1.8
0.2	0.23	0.50	2.0	2.3
0.2	0.24	0.50	2.0	2.4
0.2	0.13	0.25	2.0	1.3
0.2	0.11	0.25	2.0	1.1
0.2	0.24	0.50	2.0	2.4
0.2	0.12	0.25	2.0	1.2
0.2	0.14	0.25	2.0	1.4
0.2	0.09	0.25	2.0	0.91
0.2	0.13	0.25	2.0	1.3
0.2	0.13	0.25	2.0	1.3
0.2	0.09	0.25	2.0	0.87
0.2	0.28	0.75	2.0	2.8
0.2	0.09	0.25	2.0	0.90
0.2	0.09	0.25	2.0	0.94

LMCL based on Low Cal.
2.5
2.5
2.5
2.5
5.0
5.0
2.5
2.5
5.0
2.5
2.5
2.5
2.5
2.5
2.5
7.5
2.5
2.5